

Mouse HSPA1A Monoclonal Antibody | anti-HSPA1A antibody

HSPA1A (Heat Shock 70kD Protein 1A/1B, Heat Shock 70kD Protein 1/2, HSP70.1/HSP70.2, HSP70-1/HSP70-2, HSPA1, HSPA1B) (FITC)

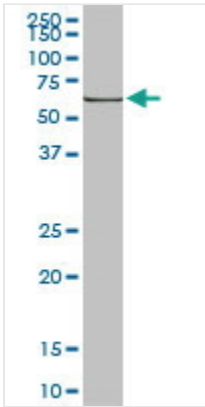
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA25129	Mouse	Human, Mouse, Rat	ELISA, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

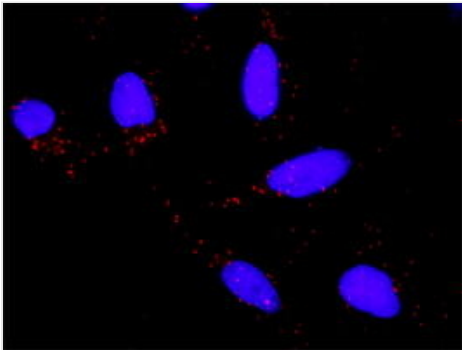
HSPA1A; Monoclonal Antibody; HSPA1A (Heat Shock 70kD Protein 1A/1B; Heat Shock 70kD Protein 1/2; HSP70.1/HSP70.2; HSP70-1/HSP70-2; HSPA1; HSPA1B) (FITC); anti-HSPA1A antibody

PRODUCT SPECIFICATIONS

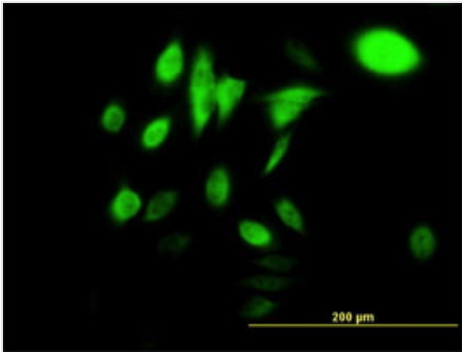
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3B7
Specificity	Recognizes human HSPA1B. Species Crossreactivity: mouse and rat.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Applicable Applications for anti-HSPA1A antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	IF: 10ug/ml Applications are based on unconjugated antibody.
Immunogen	Partial recombinant corresponding to aa531-611 from human HSPA1B (NP_005336) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	VQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISGLY
Conjugate	FITC
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



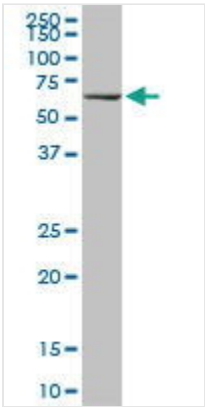
WB (Western Blot)
HSPA1B monoclonal antibody Western Blot analysis of HSPA1B expression in Raw 264.7.



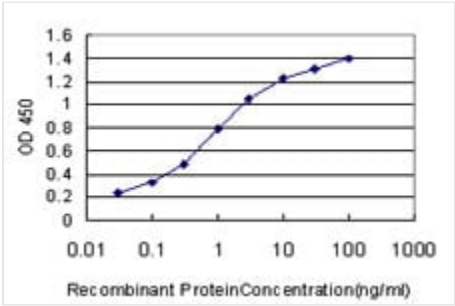
Application Data
Proximity Ligation Analysis (PLA) of protein-protein interactions between TP53 and HSPA1B. HeLa cells were stained with TP53 rabbit purified polyclonal 1:1200 and HSPA1B mouse monoclonal antibody 1:50. Signals were detected 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex.



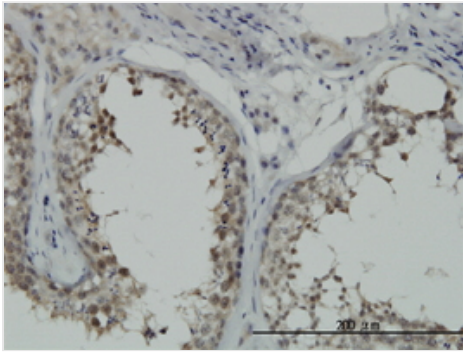
IF (Immunofluorescence)
Immunofluorescence of monoclonal antibody to HSPA1B on HeLa cell. [antibody concentration 10ug/ml]



WB (Western Blot)
HSPA1B monoclonal antibody Western Blot analysis of HSPA1B expression in NIH/3T3



Application Data
Detection limit for recombinant GST tagged HSPA1B is ~0.03ng/ml as a capture antibody.



IHC (Immunohistochemistry)
Immunoperoxidase of monoclonal antibody to HSPA1B on formalin-fixed paraffin-embedded human testis. [antibody concentration 6ug/ml]

ADDITIONAL INFORMATION

Product Categories/Family for anti-HSPA1A antibody	Antibodies; Heat Shock Proteins
References	1. Functional analysis of beef tenderness. Guillemin N, Bonnet M, Jurie C, Picard B.J Proteomics. 2011 Aug 9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194248072
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NCBI GeneID	3303
NCBI Accession #	NP_005336
NCBI GenBank Nucleotide #	NM_005345
UniProt Accession #	P0DMV8; P08107; P19790; Q5JQI4; Q5SP17; Q9UQL9; Q9UQM0; B4E3B6
Molecular Weight	63,937 Da
NCBI Official Full Name	heat shock 70 kDa protein 1A
NCBI Official Synonym Full Names	heat shock protein family A (Hsp70) member 1A
NCBI Official Symbol	HSPA1A
NCBI Official Synonym Symbols	HSP72; HSPA1; HSP70I; HSP70-1; HSP70.1; HSP70-1A; HEL-S-103
NCBI Protein Information	heat shock 70 kDa protein 1A
UniProt Protein Name	Heat shock 70 kDa protein 1A
UniProt Gene Name	HSPA1A
UniProt Synonym Gene Names	HSP721 PublicationManual assertion based on opinion iniRef.41; HSP70-12 PublicationsManual assertion based on opinion iniRef.4; HSP70.1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hspa1a-antibody-clone-3b7-immunofluorescence-immunohistochemistry-western-blot-elisa/25129>